

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	9292	(atomic near layer near (epitax\$3 deposition))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 12:28
L4	1679	L3 and sequential	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:00
L5	1	L3 and sequential same rotary	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 07:50
L6	41	L3 and sequential and rotary	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 07:51
L7	315	(atomic near layer near (epitax\$3 deposition)) and (rotat\$3 spin\$4) with (spray\$3 nozzle inlet)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 07:53
L8	462	L3 with sequential	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 07:57
L9	1202	(137/625.41,625.15).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:13
L10	18	L9 and (deposition epitax\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:17
L11	247372	(118/715-33 156/345.1-345.55 "427"/\$ "219"/\$).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:17
L12	1	I9 and L11	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:18
L13	0	I9 and rotary near valve with gas with switch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:19
L14	65	rotary near valve with gas with switch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:35
L15	4663	rotary near valve with (reactor vessel chamber)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:35
L16	697	rotary near valve with (reactor vessel chamber) with gas	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:51
L17	2	I9 and I16	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:35

## EAST Search History

L18	32	l9 and l15	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:43
L19	34	"0122801"	EPO; DERWENT	OR	ON	2007/07/27 08:45
L20	0	gb near "0122801"	EPO; DERWENT	OR	ON	2007/07/27 08:47
L21	0	"0122801.4"	EPO; DERWENT	OR	ON	2007/07/27 08:47
L22	9	("2959151"   "3238971"   "4099483"   "4199558"   "4604964"   "4834019").PN. OR ("6991934"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:50
L23	1901	rotary near valve same single same (opening port hole)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:52
L24	299	rotary near valve with single with (opening port hole)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:52
L25	82	rotary near valve with single near (opening port hole)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:52
L33	1	("6288465").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/27 10:36
L36	30	("3397439"   "3614181"   "3841719"   "3939776").PN. OR ("4128280"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 11:02
L37	26	("3582162"   "4076340"   "4245869"   "4389849"   "4405286"   "4584750"   "4697128"   "4733547"   "4806835"   "4827168"   "4886778"   "4976177"   "4982126"   "5098203"   "5179304"   "5345127"   "5347190"   "5355040"   "5355042"   "5570572"   "5666219"   "5818137"   "5973468").PN. OR ("6288465"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 11:11
L38	22	("3356425"   "3376083"   "3377113"   "3611815"   "3663074"   "3753604"   "3810683"   "3870382"   "3918773").PN. OR ("4076340"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 11:18
L39	16	("3356425").URPN.	USPAT	OR	ON	2007/07/27 11:28
L40	523	l3 and sequen\$4 with purge	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 12:28

## EAST Search History

L41	232	I3 and sequential with purge	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 12:28
L42	177	I3 and sequential with purge with gas	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 12:28
L43	37	I3 same sequential with purge with gas	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 12:28
S1	1	10/743314	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:36
S2	3	("5879459" "6174377" "6387185").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 14:27
S3	4	(reiki with watanabe).in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:39
S4	141	(ale ald) with (rotat\$3 spin\$4) with (spray\$3 nozzle inlet)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:46
S5	309	(atomic near layer near (epitax\$3 deposition)) and (rotat\$3 spin\$4) with (spray\$3 nozzle inlet)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 14:58
S7	247293	(118/715-33 156/345.1-345.55 "427"/\$ "219"/\$).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:50
S8	62	S5 and S7	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:49
S9	53	("3785853"   "4058430"   "4480585"   "4986214"   "5108779"   "5281274"   "5338362").PN. OR ("5730802").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:55

# EAST Search History

S10	291	("20010000866"   "20010002280"   "20010009140"   "20010009695"   "20010011526"   "20010013312"   "20010014371"   "20010024387"   "20010025979"   "20010028924"   "20010029094"   "20010034123"   "20010041250"   "20010042523"   "20010042799"   "20010050039"   "20010054377"   "20010054730"   "20010054769"   "20020000196"   "20020000598"   "20020004293"   "20020007790"   "20020019121"   "20020020869"   "20020021544"   "20020031618"   "20020037630"   "20020041931"   "20020048635"   "20020048880"   "20020052097"   "20020055235"   "20020061612"   "20020066411"   "20020068458"   "20020073924"   "20020074588"   "20020076481"   "20020076507"   "20020076508"   "20020076837"   "20020081844"   "20020086106"   "20020090829"   "20020092471"   "20020094689"   "20020098627"   "20020104481"   "20020105088"   "20020106536"   "20020106846"   "20020108570"   "20020109168"   "20020117399"   "20020121697"   "20020134307"   "20020135071"   "20020144655"   "20020144657"   "20020146511"   "20020155722"   "20020162506"   "20020164421"   "20020164423"   "20020177282"   "20020182320"   "20020187256"   "20020187631"   "20020197402"   "20030004723"   "20030013320"   "20030031807"   "20030032281"   "20030042630"   "20030049942"   "20030072975"   "20030075273"   "20030075925"   "20030082296"   "20030082300"   "4058430"   "4389973"   "4413022"   "4486487"   "4767494"   "4806321"   "4813846"   "4829022"   "4834831"   "4838983"   "4838993"   "4840921"   "4845049"   "4859627"   "4861417"   "4876218"   "4917556").PN. OR ("4927670"   "4931132"   "4951601"   "4960720"   "4975252"   "4993357"   "5000113"   "5013683"   "5028565"   "5082798"   "5085885"   "5091320"   "5130269"   "5166092"   "5173474"   "5186718"   "5205077"   "5225366"   "5234561"   "5246536"   "5250148"   "5254207"   "5259881"   "5281274"   "5286296"   "5290748"   "5294786"   "5296403"   "5300186"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 10:46
7/27/2007 1:36:48 PM C:\Documents and Settings\medderding\My Documents\EAST\Workspaces\10743314.wsp					Page 4	

## EAST Search History

S11	30	("4951603"   "4976996"   "4987856"   "5201994"   "5261959"   "5281274").PN. OR ("5338362"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 10:56
S12	26	("20010007244"   "20020043216"   "20020046705"   "20020066411"   "20020100418"   "20020195056"   "20030023338"   "20030059538"   "20030098372"   "20030194493"   "20040052972"   "4058430"   "4976969"   "4976996"   "5281274"   "5302209"   "5338362"   "5527731"   "5747113"   "6139695"   "6319553"   "6458416"   "6503330"   "6541353"   "6576062").PN. OR ("6972055"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 10:57
S13	100	("4058430"   "4389973"   "4975252"   "4993357").PN. OR ("5281274"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 11:01
S14	66	("20010000866"   "20010009140"   "20010011526"   "20010013312"   "20010014371"   "20010042523"   "20010042799"   "20010054377"   "20020000196"   "20020007790"   "20020041931"   "20020052097"   "20020086106"   "20020092471"   "20020094689"   "20020108570"   "20020134307"   "20030004723"   "20030075273"   "20030075925"   "4058430"   "4389973"   "4413022"   "4834831"   "4953595"   "4993357"   "5225366"   "5281274"   "5294286"   "5316042"   "5353838"   "5374570"   "5441703"   "5443647"   "5480818"   "5483919"   "5503875"   "5674786"   "5711811"   "5796116"   "5807792"   "5835677"   "5855680"   "5879459"   "5913329"   "5916365"   "6015590"   "6042652"   "6139700"   "6174377"   "6183563"   "6200893"   "6231672"   "6270572"   "6305314"   "6306216"   "6447607"   "6478872"   "6481945"   "6511539"   "6551406").PN. OR ("6868859"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 11:22
S15	100	("4058430"   "4389973"   "4413022"   "4486487"   "4601097"   "4772099"   "4804558"   "4859623"   "4880475").PN. OR ("5374570"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 11:28

## EAST Search History

S16	49	("0218348"   "0707581"   "1055781"   "1063295"   "1065062"   "1745244"   "2042186"   "2127265"   "2367319"   "2477590"   "2567428"   "2814429"   "3056426"   "3092073"   "3157199"   "3713462"   "4175297"   "4197837"   "4491157"   "4491364"   "4570676"   "4825486"   "4829616"   "4949414").PN. OR ("5353838"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 11:45
S17	53	("3785853"   "4058430"   "4480585"   "4986214"   "5108779"   "5281274"   "5338362").PN. OR ("5730802").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 11:52
S18	77	("3408982"   "3641974"   "3652444"   "3696779"   "3750620"   "3757733"   "3862397"   "4033286"   "4047496"   "4123244"   "4142004"   "4309240"   "4421786"   "4430149"   "4522149"   "4565157"   "4592306"   "4607591"   "4664743").PN. OR ("4976996"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:25
S19	25	("3853091"   "4625678"   "4951603"   "5002011"   "5091217"   "5288379"   "5302209"   "5338362"   "5456945"   "5648114"   "5679165"   "5743965"   "5788454"   "5846328"   "5951770"   "5997642").PN. OR ("6203619"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:36
S20	53	("3785853"   "4058430"   "4480585"   "4986214"   "5108779"   "5281274"   "5338362").PN. OR ("5730802").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:46
S21	247293	(118/715-33 156/345.1-345.55 "427"/\$ "219"/\$).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:50
S22	72	S21 and rotor with holder	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:51
S23	309	(atomic near layer near (epitax\$3 deposition)) and (rotat\$3 spin\$4) with (spray\$3 nozzle inlet)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 18:18

## EAST Search History

S24	16	("20020195056"   "4058430"   "4389973"   "4545136"   "4976996"   "5125360"   "5251148"   "5656338"   "5770469"   "5781693"   "5866213"   "5879459"   "5916365"   "5997588"   "6143082"   "6143128").PN. OR ("6902620"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 17:09
S25	16	(atomic near layer near (epitax\$3 deposition)) and (rotat\$3 spin\$4) and (spray\$3 nozzle inlet)	EPO; JPO; DERWENT	OR	ON	2007/07/26 08:05
S26	58	(atomic near layer near (epitax\$3 deposition)) and (rotat\$3 spin\$4)	EPO; JPO; DERWENT	OR	ON	2007/07/26 11:33
S27	61066	(rotat\$3 spin\$4) and (spray\$3 nozzle inlet) and (holder susceptor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 12:46
S28	4070	(rotat\$3 spin\$4) and (spray\$3 nozzle inlet) and (holder susceptor)	EPO; JPO; DERWENT	OR	ON	2007/07/26 08:24
S29	1059995	(h01l021/\$ c23c014/\$ c23c016/\$). ipc.	EPO; JPO; DERWENT	OR	ON	2007/07/26 08:23
S30	623	S28 and S29	EPO; JPO; DERWENT	OR	ON	2007/07/26 08:26
S31	15	(rotat\$3 spin\$4) and (spray\$3 nozzle inlet) and (holder susceptor) and atomic	EPO; JPO; DERWENT	OR	ON	2007/07/26 08:24
S32	12	(atomic near layer near (epitax\$3 deposition)) and rotary	EPO; JPO; DERWENT	OR	ON	2007/07/26 12:45
S33	13	(atomic near layer near (epitax\$3 deposition)) same rotary	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 12:45
S34	230	(atomic near layer near (epitax\$3 deposition)) and rotary	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 08:48
S35	16	("20020195056"   "4058430"   "4389973"   "4545136"   "4976996"   "5125360"   "5251148"   "5656338"   "5770469"   "5781693"   "5866213"   "5879459"   "5916365"   "5997588"   "6143082"   "6143128").PN. OR ("6902620"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 09:17
S36	1508	rotary same gas same alternate	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 09:18
S37	6018	rotary same gas same alternat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 09:18

## EAST Search History

S38	247372	(118/715-33 156/345.1-345.55 "427"/\$ "219"/\$).cccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 14:20
S39	177	S38 and S37	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 09:20
S40	76	("3546091"   "3576729"   "3635811"   "3829373"   "4046666"   "4128466"   "4142958"   "4151059"   "4151064"   "4166018"   "4261808"   "4298444"   "4313815"   "4361114"   "4361472"   "4392931"   "4420385"   "4424103"   "4434037"   "4492620"   "4562093"   "4588490"   "4588942"   "4622919"   "4637869"   "4655167"   "4661229"   "4674621"   "4675096"   "4692233"   "4693803"   "4793908"   "4798663"   "4824544"   "4834023"   "4842704"   "4862032"   "5225057").PN. OR ("5618388"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 09:38
S41	22	("5154810"   "5554224"   "5618388"   "5935337").PN. OR ("6527866"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 09:42
S42	30	("3829373").URPN.	USPAT	OR	ON	2007/07/26 09:59
S43	1202	(137/625.41,625.15).cccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 08:13
S44	0	S43 and (atomic near layer near (epitax\$3 deposition))	EPO; JPO; DERWENT	OR	ON	2007/07/26 11:33
S45	0	S43 and (substrate wafer) same (holder susceptor)	EPO; JPO; DERWENT	OR	ON	2007/07/26 11:33
S46	1044	(137/625.41).cccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 11:48
S47	3	S46 and rotary same (substrate wafer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 11:36
S48	15	S46 and (substrate wafer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 11:36



## EAST Search History

S49	67	("1319755"   "2854027"   "2861769"   "2934311"   "3698683"   "3717177"   "4131128"   "4146055"   "4475573"   "4667927"   "4802506"   "5186120"   "5370154"   "Re25920").PN. OR ("5601651"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 11:37
S50	10	"234899"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 11:54
S51	1801	rotary same (substrate wafer) same (holder susceptor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 11:57
S52	289	S38 and rotary same (substrate wafer) same (holder susceptor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 11:57
S53	4	("4717585"   "4772486"   "5122431").PN. OR ("5447816"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 12:33
S54	25	("4401054"   "4532199"   "4543465"   "4689093"   "4716852"   "4717585"   "4772486"   "4777103"   "4818563"   "4913929"   "4989542"   "5122431"   "5151296"   "5178905"   "5180436"   "5269848"   "5368676"   "5447816").PN. OR ("5741364"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 12:33
S55	1783	(atomic near layer near (epitax\$3 deposition))	EPO; JPO; DERWENT	OR	ON	2007/07/26 16:26
S56	9292	(atomic near layer near (epitax\$3 deposition))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/27 07:50
S57	116	(atomic near layer near (epitax\$3 deposition)) and (spray\$3 nozzle inlet) with (holder susceptor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 12:46

## EAST Search History

S58	66	("20010000866"   "20010009140"   "20010011526"   "20010013312"   "20010014371"   "20010042523"   "20010042799"   "20010054377"   "20020000196"   "20020007790"   "20020041931"   "20020052097"   "20020086106"   "20020092471"   "20020094689"   "20020108570"   "20020134307"   "20030004723"   "20030075273"   "20030075925"   "4058430"   "4389973"   "4413022"   "4834831"   "4953595"   "4993357"   "5225366"   "5281274"   "5294286"   "5316042"   "5353838"   "5374570"   "5441703"   "5443647"   "5480818"   "5483919"   "5503875"   "5674786"   "5711811"   "5796116"   "5807792"   "5835677"   "5855680"   "5879459"   "5913329"   "5916365"   "6015590"   "6042652"   "6139700"   "6174377"   "6183563"   "6200893"   "6231672"   "6270572"   "6305314"   "6306216"   "6447607"   "6478872"   "6481945"   "6511539"   "6551406").PN. OR ("6868859"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 12:56
S59	148	S38 and rotary adj valve	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 14:20
S60	54	S38 and float\$3 near gas	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 14:27
S61	1	("6306216").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/26 14:59
S62	1	("6812157").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/26 15:05
S63	0	("I13androtary(drumcylindervesselre actor)").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/26 15:06
S65	6408	S38 and rotary and (drum cylinder vessel reactor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:07
S66	1767	S38 and rotary with (drum cylinder vessel reactor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:07

## EAST Search History

S67	1396	S38 and rotary with (drum cylinder)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:07
S68	21	("4223048").PN. OR ("4607591"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:11
S69	169	(137/625.15).ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:25
S70	3573	"magnetic bearing"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:41
S71	33	S38 and S70	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:30
S72	19	"5,818,137"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:30
S73	22	("4043614"   "4077678"   "4634191"   "4652820"   "5355041"   "5376862"   "5491396").PN. OR ("5818137").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:41
S74	511	"magnetic bearing" same gas	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:42
S75	37	"magnetic bearing" same gas same float\$3	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:56
S76	5106	rotary with gas with valve	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 15:57
S77	217	S29 and rotary and gas and valve	EPO; JPO; DERWENT	OR	ON	2007/07/26 16:18
S78	0	S45 and sequential	EPO; JPO; DERWENT	OR	ON	2007/07/26 16:26
S79	0	S45 and sequential	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 16:26
S80	0	S55 and sequential	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 16:27
S81	1679	S56 and sequential	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 16:28
S82	685	S56 same sequential	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 16:28

## EAST Search History

S83	462	S56 with sequential	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 16:28
S84	12	S43 and cylinder with hole	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 16:40
S85	1396	S38 and rotary with (vessel chamber reactor)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 16:41
S86	255	S38 and rotary with (vessel chamber reactor) with gas	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/26 16:41